

## TBL Pilots for Non-Construction Alternatives

Category	Sub-Category	Program Concept	Notes
Demand-Side Management		Affects load shape in EPRI categories Peak Shifting, Peak Reduction, Valley Filling, Strategic Conservation	
	Targeted Conservation		
		Various conservation measures that have relatively high (though not exclusive) peak coincidence	Basket of conservation measures custom designed to fit local peak load profile. Assumes .7 aMW per peak MW  Could include distribution system efficiency.
	Direct Load Control		
	Several means to implement from simple radio control to more complex internet addressable systems. Some overlap with Remote Meter and AMR technologies.		
		Residential End-Use Control	Pager or internet communication to sensors controlling water heating, and or space conditioning.
Distributed Energy Resource		Includes distributed generation, dispatchable demand management (not efficiency), etc.	
	Distributed Generation		Aggregated so that multiple small resources can be dispatched as if they are a larger resource. Has benefits in reliability, etc.
		Celerity Energy EnergyWeb	Private aggregator of back-up generation. Participant in PNW EnergyWeb Initiative
	Dispatchable Demand Management		Different from DLC in the technology and manner of control.
		Tacoma EnergyWeb	Aggregated changes in commercial / industrial end-uses coordinated to mimic larger single load dispatch
		Olympic Peninsula Demand Exchange	Continues operation of the 2003 TBL pilot. This funding level provides addition funds for curtailment payments, continued portal subscription costs and funds for an evaluation.
Policy		Includes Policy issues such as institutional barriers. Potential pilots may develop later this year.	
	Fuel		
		-	
	State		
		-	
	RTO West		
	FERC		
	-		
Tariff		Includes tariff designs that encourage peak avoidance.	
	Retail		
		-	
	TX		
		-	
R&D		Includes “not ready for prime-time”.	
	Technology		
		Wave	Project underway with Makah Tribe on Olympic Peninsula.

Category	Sub-Category	Program Concept	Notes
		Conservation Voltage Reduction	Likely unhelpful to transmission N-1 and N-2 issues. May be helpful or neutral in normal operations.
		Hydrogen	Possible linkage to off-peak hydrogen conversion in support of future PNW hydrogen economy project.
		Energy Storage	Large-scale electricity storage technologies cover a wide spectrum of applications, ranging from fast power quality applications to improve reliability all the way to slow energy management applications at the MW scale. Long term benefits, should not be seen a viable resource sooner than 5 years out
		Biomass Generation	Possible site-specific pre-feasibility study warranted clarifying fuel resource availability and costs.
		Direct Application Renewable Energy	Photovoltaic, Solar Water Heating, etc.  Cost: PV ~\$6-8/W SHW ~??